

PERMIT TO OPERATE

Number 37

EQUIPMENT OWNER-OPERATOR:

Cold Canyon Landfill
974 B Monterey Street
San Luis Obispo, CA 93401

EQUIPMENT LOCATION:

2268 Carpenter Canyon Road
San Luis Obispo

FOR THE EQUIPMENT LISTED HEREIN AND SUBJECT TO THE LISTED CONDITIONS

October 23, 1998 (effective January 1, 1999)

January 1, 2004

ISSUANCE DATE

ANNIVERSARY

ROBERT W. CARR
Air Pollution Control Officer

Application Number: 2194

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Conventions and Abbreviations

A. The following referencing conventions are used in this permit.

1. The reference for each requirement will be noted in [square brackets]. References which are noted as being "District-only" are not federally-enforceable requirements. **All conditions with references in [square brackets] that do not contain the phrase "District-only" must be considered federally-enforceable requirements.**
2. Wherever possible, each requirement, condition, or piece of equipment has been identified with a unique permit section/condition number, *e.g.*, the 500 ppmv methane leak threshold is in condition I.A.1.a while the 500 ppm TOC leak threshold is in I.A.1.b.
3. Requirements based on current District rules will be noted by the phrase "Rule XXX" with the respective rule number substituted. Requirements based on District rules approved into the State Implementation Plan (SIP) will be noted by the phrase "SIP Rule XXX" with the respective SIP rule number substituted.
4. Concerning citations for the basis of conditions. If the SIP version of a rule is the same as the current version of a rule, only the SIP version will be cited because including both would be considered redundant. If the SIP version of a rule is different than the current version, both will be included. *e.g.*, SIP Rule 205 and Rule 206 have identical allowances for the APCO to issue conditional permits, so the former will be cited for any federally-enforceable requirement that cannot be directly attributed to a rule, regulation, or law. Conversely, Rule 206 will be cited for District-only enforceable requirements not attributable to a rule, regulation, or law.
5. If there is no over-riding need to have the current version of a permit condition be considered federally-enforceable, it will be listed as "District-only". An example of an over-riding need where the current condition would be considered federally-enforceable might be when that condition is needed to support a federally-enforceable limit.
6. In multi-part conditions, the general reference notation at the beginning of the condition will apply throughout except for those subparts which are followed by a specific reference. For example, in the following condition, the opening paragraph and subparts 1, 2, 3, and 4 are federally-enforceable under 40CFR61.151.d. The last subpart, however, is followed by a specific reference so it is enforceable under District-only, Rule 206 instead of 40CFR61.

III.B.5.c. "At least forty-five (45) calendar days prior to excavating or otherwise disturbing any asbestos-containing material, Cold Canyon shall submit the following information to the APCO in writing. If the original excavation date is revised, the APCO shall also be notified at least ten(10) working days before excavation begins.
[40CFR61.151.d]

- 1) The scheduled starting and completion dates.
 - 2) The reason for disturbing the waste.
 - 3) The procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material.
 - 4) The location of any temporary storage site and final disposal site.
 - 5) Proof of asbestos work notification to Cal-OSHA and compliance with 8CCR1529 in the form of a bid specification or work plan, including the estimated appearance of the asbestos-containing waste that might be encountered and the actions to be taken if it is encountered. [District-only, Rule 206]"
7. A "day" shall be considered a 24 hour period from midnight to midnight (*i.e.*, calendar day), unless otherwise noted.
8. The number of values displayed for any given emission or operational limit in this permit is intended to represent the number of significant figures to which test or analysis results are to be rounded. *e.g.*, 2,000 ppm is intended to represent 2.000E3 ppm and any test result greater than 2,000.5 ppm would not comply with that limit.
9. When rounding test and analysis results or recorded and reported values to the correct number of significant figures, any rounding of the value "five (5)" should result in an even number. *e.g.*, 34.65 to three significant figures would be written 34.6. Also when rounding, if the final digit is 0, 1, 2, 3, or 4, the number does not change and, if the final digit is 6, 7, 8, or 9, the number is increased by one.
10. Federal regulation subpart references will typically be indicated by their subpart designation only. The title of all subparts included here are as follows:

40CFR60 Subpart A, General Provisions (New Source Performance Standards - NSPS)

40CFR60 Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills

40CFR61 Subpart A, General Provisions (National Emission Standards for Hazardous Air Pollutants - NESHAPS)

40CFR61, Subpart M, National Emission Standard for Asbestos

11. District Rule numbers only, will be used for the most part in this permit. The title of all rules referenced are as follows (parentheses indicate an identical title to both the SIP and the current versions of a rule):

(SIP) Rule 106, Standard Conditions

Rule 107, Upset and breakdown Conditions

SIP Rule 113, Particulate Matter Emission Standards

SIP Rule 114, Gaseous Contaminants Prohibitions

SIP Rule 201.E, Posting of Permit to Operate

Rule 201, Equipment Not Requiring a Permit

Rule 202, Permits

Rule 204, Requirements (a.k.a. New Source Review)
SIP Rule 205, Conditional Approval
Rule 206, Conditional Approval
Rule 210, Periodic Inspection, Testing and Renewal of Permits to Operate
Rule 216, Federal Part 70 Permits
Rule 302, Schedule of Fees
(SIP) Rule 401, Visible Emissions
Rule 402, Nuisance
Rule 403, Particulate Matter Emission Standards
(SIP) Rule 404, Sulfur Compounds Emission Standards, Limitations and Prohibitions
(SIP) Rule 406, Carbon Monoxide Emission Standards and Limitations
SIP Rule 407, Organic Material Emission Standards, Limitations and Prohibitions
Rule 407, Organic Material Emission Standards
Rule 411, Surface Coating of Metal Parts and Products
(SIP) Rule 416, Degreasing Operations
Rule 426, Landfill Gas Emissions
(SIP) Rule 501, General Burning Provisions

B. Abbreviations used in this permit are as follows:

40CFR	Chapter 40 to the Code of Federal Regulations
APCO	Air Pollution Control Officer
ARB	California Air Resources Board
Cal-OSHA	California Occupational Safety and Health Administration
CCR	California Code of Regulations
CO	carbon monoxide
CIWMB	California Integrated Waste Management Board
DO&G	Department of Oil and Gas
dscf	dry standard cubic foot
EPA	United States Environmental Protection Agency
°F	degrees Fahrenheit
gr/dscf	grains per dry standard cubic foot
H&SC	California Health and Safety Code
lb/hr	pounds per hour
LFG	landfill gas
NMOC	non-methane organic compounds
NSPS	New Source Performance Standards

(continued)

B. Abbreviations (continued)

O ₂	oxygen
ppmv	parts per million by volume
psia	pounds per square inch absolute
RACM	regulated asbestos-containing material

RWQCB	Regional Water Quality Control Board
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO ₂	sulfur dioxide
TOC	total organic compounds
tpy	tons per year
VOC	volatile organic compounds
wt%	percent by weight

I. Emission and Operational Limits

A. Specific Emission Limits. The following emission limits shall apply to the specified units.

Unit		Parameter		Limit	Notes
1.	landfill surface leaks (a)(c)	a.	methane	500 ppmv	above background [40CFR60.753.d]
		b.	TOC	500 ppmv	as methane [District-only, Rule 426.E.8.a and B.17]
2.	component leaks (a)(b)(c)	TOC		500 ppmv	as methane [District-only, Rule 206]
3.	utility flare	opacity		zero visible emissions (d)	[40CFR60.18.c.1 and 60.752.b.2.iii.A]

Additional Notes:

- (a) A leak exceeding these limits is not a violation unless the corrective actions listed in condition III.B.4.c below for the limit in condition I.A.1.a, and the corrective actions listed in condition III.B.4.d below for the limits in conditions I.A.1.b and I.A.2, are not performed or are unsuccessful in reducing the surface concentration below these limits.
 - (b) Subject components include gas wells, piping, flanges, valves, blowers, flame arresters, pipe fittings, sampling ports, or any other connections or fittings along the landfill gas transfer path of any landfill gas collection or control system.
 - (c) Does not apply to non-repeatable, momentary instrument readings.
 - (d) The flare shall be operated with zero visible emissions, as determined by EPA Method 22, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
4. Cold Canyon shall not transfer collected landfill gas to any person which has not contractually agreed to burn or destroy that gas in such a way that either: [District-only, Rule 426.F.1]
- a. the VOC destruction/treatment efficiency is at least ninety-eight percent (98%) by weight; or
 - b. the resulting emissions at the exhaust of the control device do not exceed thirty (30) ppmv VOC measured as methane and corrected to three percent (3%) oxygen on a dry basis.

B. Specific Operational Limits. The following operational limits shall apply to the specified units. Compliance will be determined through recordkeeping except as noted.

Unit		Parameter		Limit	Compliance	Notes
1.	gas collection system	quarterly gas collected		90% of target volume	quarterly calculation	as determined under condition III.B.3.e.2 [District-only, Rule 426.E.1.a]
2.	LFG well heads, additional note (a)	a.	pressure	negative	monthly check	[40CFR60.753.b]
		b.	temperature	55°C (131°F)	monthly check	[40CFR60.753.c]
		c.	oxygen	<5.0%	monthly check	[40CFR60.753.c]
3.	portable air compressor	elapse time of operation		1.0 hr/day		[District-only, Rule 206]

Additional Note:

(a) A reading exceeding these limits is not a violation unless the corrective action listed in conditions III.B.4.a or III.B.4.b below, for the respective limit, is not performed or is unsuccessful in reducing the indicated parameter to below these limits.

4. Any asbestos-containing waste shall be covered:

- a. with at least six inches (6") of compacted nonasbestos-containing material and vegetation adequate to prevent exposure of the asbestos-containing waste; or [40CFR61.151.a.2]
- b. with at least two feet (2') of compacted nonasbestos-containing material. [40CFR61.151.a.3]

II. Facility Description

- A. General.** This facility consists of three separate operations: a municipal solid waste landfill (Standard Industrial Classification (SIC) code 4953), a household hazardous waste facility (SIC 9511), and a green waste composting operation (SIC 2879). With a design capacity of just over 4½ million tons of waste (4 million megagrams), the landfill portion of the facility is subject to District Rule 426, Landfill Gas Emissions. When Rule 426 was adopted, Cold Canyon proactively committed to the installation of a landfill gas collection and control system even though their uncontrolled emissions are now estimated to be only 11 tons per year (tpy), or 10 megagrams, of non-methane organic compounds (NMOC). Those emissions are less than the 15 tpy requirement in Rule 426 to install such controls.

When the San Luis Obispo County's Planning Commission approved an expansion of the landfill on December 2, 1991, Cold Canyon also became subject to the federal New Source Performance Standard in 40CFR60, subpart WWW, Standards for Municipal Solid Waste Landfills. The initial emissions estimate, using the technique required under that regulation, was much higher than actual emissions have turned out to be. This effectively means that the landfill has installed controls voluntarily.

Cold Canyon is a Class III Municipal Solid Waste Landfill which is owned by the Corral de Piedra Land Company and operated by Cold Canyon Land Fill, Inc. Existing waste occupies 67 acres of a 121 acre parcel. The approved horizontal expansion would add 22 more acres of waste for a total of 89 acres. Approximately 15 acres of waste has been closed through the placement of final cover.

Cold Canyon has chosen to collect their landfill gas using a conventional system of wells and has currently contracted with a nearby oil field to use the gas as fuel in its steam generators rather than destroy the gas with an on-site flare. While Cold Canyon does have a utility flare for emergency use, that flare is not intended to satisfy the ground level flare requirements of the District's rule. The steam generators are owned and operated by Stocker Resources LLC. Source testing has shown that these units are 99% efficient in destroying the landfill gas. Total emission reductions are estimated to be approximately 9 tpy of VOC and 3,200 tpy of methane, the latter air contaminant being a significant contributor to global warming. Future agreements for use of the gas may involve other companies and/or different methods of disposal.

The second operation located on landfill property is a household hazardous waste storage and transfer facility operated by the Integrated Waste Management Authority of San Luis Obispo County. This process is neither subject to District permit requirements or the landfill NSPS and is not under the common ownership or control of Cold Canyon. Consequently is not included in this Title V permit.

The third significant operation at Cold Canyon is their composting facility. That process is not subject to a Title V permitting requirement because its SIC code is in a different major group than that of the landfill. This makes the composting operation a separate stationary

source. Consequently, and in keeping with the permit applicant's request, air pollutant emitting equipment associated with the composting operation is not included here in this Title V permit.

B. Specific Equipment. Major emission units are listed below but all associated valves, flanges, piping, condensate pots, and minor emission units, which are not explicitly identified, are also included in this permit and subject to their respective major emission unit's requirements.

1. Solid Waste Landfill, with a landfill gas collection system, pipeline, and utility flare system consisting of:

TITLE		CAPACITY	DESCRIPTION
a.	main blowers (2)	1,100 cfm (each)	electrically driven and only one in operation at any given time, with the normally-off unit located at Cold Canyon's utility flare and the normally-on unit located at the receiving end of the transmission pipeline
b.	utility flare	1,100 cfm	Landfill Gas Specialties model PCF820I8, propane fueled pilot, Flame-Trol I flare control system
c.	landfill property boundary perimeter wells		sample point to check for evidence of offsite gas migration
d.	LFG extraction wells		sampling port upstream of the throttle valve
e.	LFG transmission pipeline(s)		Cold Canyon Landfill is responsible for maintenance and integrity up to the receiving end's main blower suction

C. Insignificant Equipment. The following equipment and equipment types are considered environmentally insignificant. This equipment is not subject to the provisions of this permit except for those units which are subject to a federally-enforceable, generally applicable requirement as listed in section III.A.1.

Description	Basis for Insignificance
maintenance machining equip., <i>e.g.</i> , drills, saws, presses	Rule 201.A.1
portable air compressor driver, 62 hp diesel engine	Rule 201.A.1
Household Hazardous Waste Facility	Rule 201.A.1
grounds maintenance equip., <i>e.g.</i> , weed eaters, mowers	Rule 201.B.1
internal combustion engines rated at <50 bhp	Rule 201.B.1
domestic hot water heaters	Rule 201.B.2
graders, loaders, utility trucks, and other mobile equipment	Rule 201.C.1
storage tanks with <250 gallon capacity	Rule 201.I.1
diesel storage tanks used for vehicle refueling	Rule 201.I.4
lubricating oil storage	Rule 201.I.8
gasoline storage tanks used for vehicle refueling	Rule 201.I.9
architectural surface coating equipment	Rule 201.J.1
cold solvent cleaners	Rule 201.J.2
comfort air conditioning	Rule 201.M.1
pressure washer cleaning equipment	Rule 201.M.4
comfort space heating	Rule 201.M.5
welding equipment	Rule 201.N.2

III. Conditions

A. Standard Conditions

- 1. Generally Applicable Requirements.** For the purposes of this permit, all requirements shall be based on standard atmospheric conditions of sixty degrees Fahrenheit (60°F) and 14.7 psia. [SIP Rule 106]
 - a. Visible emissions shall not exceed Ringlemann #2 or forty percent (40%) opacity for a period exceeding three (3) minutes aggregated in any sixty (60) minute period of time. [H&SC 41701 and SIP Rule 401]
 - 1) This condition shall not apply to open outdoor fires, which have been approved by the APCO, for the purposes of employee instruction in fire fighting methods. [SIP Rule 401.B.3]
 - b. If the APCO determines that the operation of this equipment is causing a public nuisance, Cold Canyon shall take immediate action to eliminate such nuisance. [District-only, Rule 402]
 - c. Particulate matter emissions shall not exceed any of the following:
 - 1) 0.3 gr/dscf, on an hourly basis, for all emission units except combustion devices; [SIP Rule 113]
 - 2) that lb/hr amount identified in Table I of SIP Rule 113 depending on process rate; [SIP Rule 113]
 - 3) 0.3 gr/scf corrected to three percent (3%) O₂, wet, for combustion device emission units; or [SIP Rule 113]
 - 4) 0.3 gr/scf corrected to twelve percent (12%) CO₂ for combustion device emission units. [District-only, Rule 403]
 - d. Sulfur Compound Limitations [SIP Rules 114.1 and 404.E]
 - 1) Sulfur compound emissions shall not exceed 0.2 percent by volume of sulfur compounds calculated as sulfur dioxide;
 - 2) Gaseous fuel sulfur content shall not exceed 50 gr/100 dscf (797 ppmv) total sulfur (as H₂S at standard conditions).
 - 3) Liquid fuel sulfur content shall not exceed 0.5 wt% sulfur.

- e. Carbon monoxide emissions shall not exceed 2,000 ppmv at standard conditions, except for internal combustion engines. [SIP Rule 406]
- f. Metal surface coatings shall not be thinned or reduced with photochemically reactive solvents, as defined in District Rule 407. [SIP Rule 407.H.2]
- g. Architectural coatings, which are purchased in containers of one (1) quart capacity or larger, shall not contain photochemically reactive solvents nor shall they be thinned or reduced with photochemically reactive solvents. [SIP Rule 407.H.3]
- h. No photochemically reactive solvent, or any material containing that amount of photochemically reactive solvent, may be evaporated in any given day during the disposal of that solvent or material. [SIP Rules 205 and 407.H.4]
- i. This facility must comply with all applicable provisions of the Air Toxic "Hot Spots" Act as set forth in Health and Safety Code Section 44300 (*et seq.*). [District-only, H&SC 44300 (*et seq.*) and, District-only, Rule 204.F.1]
- j. All abrasive blasting shall be conducted in accordance with Title 17 of the California Code of Regulations (CCR). [District-only, CCR92000 (*et seq.*) and, District-only, Rule 206]
 - 1) Each operator of this equipment shall be supplied with a copy of the abrasive blasting provisions of Title 17 and the APCO prepared summary of Title 17.
 - 2) Abrasive blasting of items smaller than eight feet (8') must be conducted within an enclosure or indoors.
 - 3) All dry, unconfined blasting shall utilize ARB certified abrasives.
 - 4) Areas surrounding the blasting operation shall be periodically washed, swept, vacuumed, or otherwise cleaned to prevent re-entrainment of dust.
- k. This equipment shall be operated consistent with the information provided in the Title V application under which this permit, or previous versions of this permit, were issued and shall be maintained in good working order at all times and in such a manner as to minimize the emission of air contaminants. [40CFR60.11.d]
- l. The APCO shall be notified in writing before any changes are made in the design, construction, or operation of this equipment or any modifications are made to process condition which might increase the emission of air contaminants. [District-only, Rule 202]
- m. Cold Canyon shall ensure that cold solvent metal cleaning devices, with the exception of wipe clean operations:

- 1) utilize: [SIP Rule 416.B]
 - i. a container for the solvent and the articles being cleaned;
 - ii. a cover, easily operated with one hand, which prevents the solvent from evaporating when the cleaning device is not in use;
 - iii. a shelf for draining cleaned parts such that the drained solvent is returned to the solvent storage container;
 - iv. a permanent, conspicuous label, which lists all applicable operating requirements; and
 - v. a freeboard ratio equal to or greater than 0.75, if the solvent surface area is greater than or equal to 5.4 square feet; and
- 2) are operated as follows. [SIP Rule 416.C]
 - i. All degreasing equipment and emission control equipment must be operated and maintained in good working order.
 - ii. No solvent may be allowed to leak from the degreasing equipment.
 - iii. All solvent must be stored and disposed of in a manner which prevents its evaporation to the atmosphere.
 - iv. The cover of any cleaning device shall not be removed unless that device is in use or undergoing maintenance.
 - v. The operator shall drain parts for at least fifteen (15) seconds after cleaning or until dripping ceases.
 - vi. Flowing solvent shall consist of a liquid stream and not a fine, atomized, or shower type spray; and the motive pressure for that solvent flow shall be sufficiently low to prevent the splashing of solvent beyond the container.
- n. Cold Canyon shall not ignite or maintain an open outdoor fire except as approved by the APCO for the purposes of employee instruction in fire fighting methods. [SIP Rule 501.A]
- o. Cold Canyon shall comply with applicable provisions of 40 CFR 61, National Emission Standards for Hazardous Air Pollutants, subpart A, General Provisions, and all applicable provisions of subpart M, Asbestos. Specifically, Cold Canyon shall: [40CFR61.05.c]

- 1) not fail to report, revise reports, or report source test results as required by subpart M; [40CFR61.05.d]
- 2) ensure that any change to the information provided in the initial notification under 40CFR61.10.a shall be submitted to the APCO no later than thirty (30) days after that change; [40CFR61.10.c]
- 3) ensure that the landfill shall be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions; and [40CFR61.12.c]
- 4) ensure that regulated asbestos containing material (RACM) workers are adequately trained in accordance with 40CFR61.145.c.8. [40CFR61.145.c.8]

2. Compliance with Permit Conditions

- a. Cold Canyon shall comply with all terms and conditions of this permit. [District-only, Rule 206 for "District-only" enforceable conditions and Rule 216.F.1.f & 40CFR60.752.b.2.iv for all others]
- b. While temporarily operating at the Cold Canyon landfill, any portable wood waste grinding equipment, trommel screen, or internal combustion engine, which provides the motive power for that grinding equipment or screen, shall comply with all applicable requirements of this permit. [District-only, Rule 206 for "District-only" enforceable conditions and SIP Rule 205 for all others]
- c. The need to halt or reduce a permitted activity in order to maintain compliance shall not be used as a defense for noncompliance with any permit condition. [Rule 216.F.1.g]
- d. This permit may be reopened by the APCO at any time for cause. For the purposes of this permit, the following circumstances shall constitute cause: [Rule 216.F.1.h & K.1]
 - 1) Cold Canyon becomes subject to an additional federally-enforceable requirement, the remaining term of this permit is three years or more, and the effective date of that requirement is not later than the date on which this permit is due to be reissued;
 - 2) the APCO or the EPA determine that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards, terms, or conditions of the permit; or
 - 3) the APCO determines that this permit must be revised or revoked to assure compliance with any applicable requirement, or EPA determines that the permit must be revised or revoked to assure compliance with any federally-enforceable requirement.

- e. This permit does not convey property rights or exclusive privilege of any sort. [Rule 216.F.1.i]
 - f. Within a reasonable time period, Cold Canyon shall furnish any information requested by the APCO, for the purpose of determining: [Rule 216.F.1.j]
 - 1) compliance with this permit;
 - 2) air contaminant emissions;
 - 3) whether or not cause exists to modify, revoke, reissue, or terminate this permit; or
 - 4) whether or not cause exists for an enforcement action.
 - g. Continuing non-compliance with any federally-enforceable permit condition is grounds for permit termination, revocation and reissuance, modification, enforcement action, or denial of permit renewal. [SIP Rule 205]
 - h. If Cold Canyon is not in compliance with any federally-enforceable requirement, they shall submit to the APCO a schedule of compliance, which has been approved by the Hearing Board. [Rule 216.F.2.c]
 - i. A pending permit action, or notification of anticipated noncompliance, does not stay any condition of this permit. [Rule 216.F.1.e]
 - j. All terms and conditions of this permit are enforceable by the EPA Administrator and citizens of the United States under the federal Clean Air Act unless referenced as being based on a District-only requirement. All terms and conditions of this permit, including those referenced as being based on a District-only requirement, are enforceable by the APCO. [Rule 216.F.3]
 - k. This permit, or a true copy, shall be made readily accessible at Cold Canyon's landfill office and shall not be altered or defaced in any way. [SIP Rule 201.E&F]
 - l. The terms and conditions of this permit shall apply to the equipment listed herein, which is operated by either Cold Canyon or their contractor(s), and located at 2268 Carpenter Canyon Road, San Luis Obispo, California, or on contiguous properties to that address, which are owned and controlled by Cold Canyon and are classified as having a SIC code of 4953. Specific excluded from this permit are any composting or household hazardous waste operations that occur on or near the landfill. [SIP Rule 205]
- 3. Emergency Provisions.** Cold Canyon shall comply with the requirements of District Rule 107, Upset and breakdown Conditions. [Rule 107]

4. Federal Regulation and District Compliance Plans

- a. Construction and operation of the landfill gas collection and flare system shall be conducted as specified in Rule 426, Landfill Gas Emissions, applications Numbers 1963, 2081, the EMCON Landfill Gas Collection System Master Plan dated May, 1995, and the Operation and Maintenance Manual dated March 21, 1997, unless otherwise noted in the conditions to this permit. [District-only, Rule 426.E & I.1.a.4]
 - b. Cold Canyon will continue to comply with those permit conditions with which it is in compliance, as identified in this permit. [Rule 216.L.2.b]
 - c. Cold Canyon shall comply with all federally enforceable requirements that become applicable during the permit term, in a timely manner, as identified in this permit. [Rule 216.L.2.c]
- 5. Right of Entry.** The Regional Administrator of U.S. Environmental Protection Agency, the Executive Officer of the California Air Resources Board, the APCO, or their authorized representatives, upon the presentation of credentials, shall be permitted to enter upon the premises and, at reasonable times, be permitted to: [Rule 216.F.2.a]
- a. inspect the stationary source, including equipment, work practices, operations, and emission-related activity;
 - b. inspect and duplicate records required by this Permit to Operate; and
 - c. sample substances or monitor emissions from the source or other parameters to assure compliance with the permit or applicable requirements. Monitoring of emissions can include source testing.
- 6. Severability.** The provisions of this Permit to Operate are severable, and, if any provision of this Permit to Operate is held invalid, the remainder of this Permit to Operate shall not be affected thereby. [Rule 216.F.1.e]
- 7. Circumvention.** Cold Canyon shall not build, erect, install, or use, any article, machine, equipment, or process subject to an applicable standard, if the use of which conceals an emission that would otherwise constitute a violation of that standard. [40CFR60.12 and 40CFR61.19]
- 8. Permit Life.** This Permit to Operate shall become invalid five (5) years from the date of original issuance unless a timely and complete renewal application is submitted to the District. Cold Canyon shall apply for renewal of this permit no later than six (6) months before the date of expiration. Upon submittal of a timely and complete renewal application, this permit to operate shall remain in effect until the APCO issues or denies the renewal application. [Rule 216.I]
- 9. Payment of Fees.** Cold Canyon shall remit Title V compliance determinations fees to the District in response to the District's invoice on a timely basis. Failure to remit fees in

accordance with District Rule 302 shall result in forfeiture of this Permit to Operate. Operation without a permit to operate subjects the source to potential enforcement action by the District and the EPA pursuant to section 502(a) of the Clean Air Act. [Rule 216.F.1.k]

B. Specific Recordkeeping, Inspection, and Reporting Requirements. All records must be retained for a minimum of five (5) years and be made available to the APCO upon request. For the purposes of this permit, records shall be considered all calibration and maintenance records, all original strip-chart or electronic recordings for continuous monitoring and instrumentation, all records specifically required to be maintained herein, and copies of all reports required to be submitted herein. [District-only, Rule 206, for "District-only" records and Rule 216.F.1 for all other records]

1. Recordkeeping. Cold Canyon shall record the following information.

- a. On a calendar quarter basis, the current amount of waste in place. [40CFR60.758.a]
- b. On a calendar year basis, the tons of waste accepted for the prior year. [40CFR60.758.a and, District-only, Rule 426.H.1.d]
- c. Whenever the utility flare is in use:
 - 1) the output of the flame zone thermocouple showing either the presence or absence of flame; and [40CFR60.758.c.4 and, District-only, Rule 206]
 - 2) the starting time, duration in minutes, date, and reason for flare use. [District-only, Rule 206]
- d. Whenever an exceedance is monitored of the surface methane concentration limit of condition I.A.1.a or the pressure, temperature, and oxygen limitations of condition I.B.2, the parameter and location which is in exceedance and whether or not the second reading of the parameter is still in exceedance. [40CFR60.758.e]
- e. The results of all methane or VOC emission tests including off-site migration tests, landfill property boundary perimeter well tests, and surface cover tests. [District-only, Rule 426.H.1.b&c]
- f. The gas collection flowrate, in dscfm, and the baseline oxygen concentration, in percent, whenever baseline conditions are established. [District-only, Rule 426.H.2.a]
- g. The total gas collection flow from condition III.B.3.a, including notes describing the reasons for any down-time. [40CFR60.758.c.2 and, District-only, Rule 426.H.2.b]
- h. The oxygen concentration measurements from condition III.B.3.b.1.ii . [District-only, Rule 426.H.2.c]
- i. The occurrence and results of the monthly surface integrity checks. [District-only, Rule 206]

- j. All surface monitoring with an instrument including the date, time, weather conditions, areas sampled, calibration records, and test results. Test results shall include the approximate location of each detected leak, the date of detection, the date of correction, and the repair method used. [District-only, Rule 426.H.2.d]
 - k. All 40CFR60, subpart WWW, related measurements and performance testing, including all adjustments and maintenance performed on the total LFG flowrate monitor and utility flare flame temperature monitor. [40CFR60.7.f]
 - l. The occurrence and duration of: [40CFR60.7.b]
 - 1) any startup, shutdown, or malfunction of the LFG collection or control systems;
 - 2) any malfunction of the utility flare system; and
 - 3) any period during which the LFG flowrate monitor or utility flare temperature monitor are inoperative.
 - m. The startup date and time, and the elapse time of operation, of the diesel engine driven portable air compressor. [District-only, Rule 206]
 - n. The manufacturer's brand name and designation of each solvent used to thin or reduce any coating which is applied to a metal surface by either Cold Canyon or any contractor employed by Cold Canyon. Purchase records will be sufficient to satisfy this recordkeeping requirement. Material Data Safety Sheet information sufficient to determine the non-photochemical reactivity of those solvents shall be maintained within easy access of this record. [SIP Rule 407.H.2]
 - o. The manufacturer's brand name and designation of each architectural coating used in containers of one quart capacity or larger, and the solvent used to thin or reduce those coatings, which is applied by either Cold Canyon or any contractor employed by Cold Canyon. Purchase records will be sufficient to satisfy this recordkeeping requirement. Material Data Safety Sheet information sufficient to determine the non-photochemical reactivity of those coatings and solvents shall be maintained within easy access of this record. [SIP Rule 407.H.3]
- 2. Permanent Records.** Cold Canyon shall maintain a record of the following information for the life of the equipment authorized by this permit.
- a. The maximum landfill design capacity, as represented in the application for this permit, and the maximum design capacity and effective date for any subsequent changes in that capacity. [40CFR60.758.a]
 - b. The utility flare vendor specifications. [40CFR60.758.b]

- c. The initial and any revised collection system design and installation data as follows:
 - 1) the maximum design gas generation flow rate; [40CFR60.758.b.1.i]
 - 2) the well density; [40CFR60.758.b.1.ii]
 - 3) a plot map showing each existing and planned collector with a unique identification locator for each collector; and [40CFR60.758.d]
 - 4) the installation date and location of any newly installed collectors. [40CFR60.758.d.1]
 - d. The initial utility flare performance testing conducted on March 30, 1998. [40CFR60.758.b.4]
 - e. A map indicating the location and date of cover placement for each area with intermediate and final cover. [District-only, Rule 426.H.1.a]
- 3. Inspections, Calibrations, and Sampling.** Cold Canyon shall inspect, calibrate, or sample, the following processes as indicated. The results shall be recorded in an operational log or as specified. [District-only, Rule 206 for "District-only" requirements and SIP Rule 205 for all others]
- a. On a **continuous** basis, Cold Canyon shall monitor and record the total gas collection flow rate for the landfill. [40CFR60.756.c.2.i and, District-only, Rule 426.E.4]
 - b. Check on a **daily** basis. [District-only, Rule 206]
 - 1) LFG transmission delivery data:
 - i. methane concentration;
 - ii. oxygen concentration; [District-only, Rule 426.E.3]
 - iii. carbon dioxide concentration; and
 - iv. nitrogen concentration by difference.
 - 2) LFG transmission pipeline vacuum:
 - i. operating vacuum;
 - ii. instantaneous flow rate; and
 - iii. totalized flow.

- 3) Condensate knock-out pot:
 - i. differential pressure; and
 - ii. liquid level.
- c. On a **weekly** basis. [District-only, Rule 206]
 - 1) Record the landfill, on-site condensate sump number one (1) operating hours.
 - 2) Check operation of auto-dialer.
 - 3) Change LFG gas flow chart.
 - 4) Visually inspect flare station equipment and piping.
- d. On a **monthly** basis.
 - 1) Monitor the pressure, temperature, and percent oxygen at each well head.
[40CFR60.755.a.3&5 and 756.a]
 - 2) Visually monitor for cover integrity those areas of the landfill that contain waste.
[40CFR60.755.c.5]
 - 3) Inspect exposed piping and pipe access vaults. [District-only, Rule 206]
- e. On a **quarterly** basis.
 - 1) Monitor the surface concentrations of methane in accordance with 40CFR755.c and 755.d. [40CFR755.c&d and 756.f]
 - 2) The overall effectiveness of the gas collection system shall be determined within two weeks after the end of the quarter and used to evaluate compliance with the ninety percent (90%) of target volume requirement of condition I.B.1. [District-only, Rule 426.E.5]
 - i. The target LFG volume shall be the summation of all baseline gas collection flowrates established during the quarter multiplied by the number of minutes operated during the quarter at that flowrate, in accordance with the procedures of Rule 426.E.5.a.
 - ii. The actual LFG volume shall be corrected using oxygen concentration in accordance with the procedures of Rule 426.E.5.b.

- 3) If the volume of gas collected in the preceding quarter was less than ninety percent (90%) of the target volume, establish new baseline conditions for LFG flowrate and oxygen concentration within four weeks after the end of the quarter. [District-only, Rule 426.E.6]
- 4) Monitor perimeter wells for evidence of off-site gas migration. [District-only, Rule 206]
- 5) Check and recalibrate as necessary the LFG flow sensor element and recorder. [District-only, Rule 206]
- 6) Actuate all valves, both expose and in access vaults, to minimize seizing. [District-only, Rule 206]
- 7) Drain water from air compressor and lines which are upstream of the air dryer supply piping. [District-only, Rule 206]
- f. On a **semiannual** basis, establish baseline conditions for LFG flowrate and oxygen concentration. [District-only, Rule 426.E.7]
- g. The APCO shall be notified at least five (5) calendar days prior to establishing baseline conditions. [District-only, Rule 426.E.2]

4. Unusual Operating Conditions, Actions, and Reporting

- a. A positive pressure at an active well head shall not be considered a violation of condition I.B.2.a, if action is taken to correct the exceedance within five (5) calendar days. If a negative pressure cannot be re-established within fifteen (15) calendar days of the initial exceedance, the collection system shall be expanded within 120 calendar days of the exceedance to the extent necessary to achieve a negative pressure. A positive pressure at an inactive well head, or a well head under the influence of an underground fire, shall not require that these corrective actions be taken and also shall not be considered a violation of condition I.B.2.a. [40CFR60.753.b and 755.a.3]
- b. High temperature or oxygen readings at any active well head shall not be considered a violation of either conditions I.B.2.b or c, if action is taken to correct the exceedance within five (5) calendar days. If the respective limit cannot be met within fifteen (15) calendar days of the initial exceedance, the collection system shall be expanded within 120 calendar days of the exceedance to the extent necessary to achieve the limit. [40CFR60.755.a.5]
- c. A landfill surface methane concentration in excess of 500 ppmv shall not be considered a violation of condition I.A.1.a, if the following actions are taken: [40CFR60.755.c.4]

- 1) mark the landfill surface with a conspicuous tag and note the leak location on a plot map,
 - 2) perform cover maintenance or adjust collection well vacuum in the area adjacent to the leak, and
 - 3) re-monitor the leak location within ten (10) calendar days of the initial exceedance;
 - 4) if a second exceedance is measured at the same location, take additional corrective action and re-monitor the location within ten (10) calendar days; and
 - 5) if a third exceedance is measured in the same location, the collection system shall be expanded within 120 calendar days of the initial exceedance to the extent necessary to achieve the emission limit. An alternative plan to achieve the limit, and corresponding time table, may be approved by the APCO.
 - 6) If the landfill surface methane concentration is found to be 500 ppmv or below during either the first or second re-monitoring required above, Cold Canyon shall re-monitor the same location one (1) month after the initial exceedance and take the respective action noted above for a second or third exceedance as appropriate.
- d. A landfill surface concentration or component leak in excess of 500 ppmv total organic compounds, as methane, shall not be considered a violation of conditions I.A.1.b or I.A.2 respectively, if the following actions are taken. [District-only, Rule 206]
- 1) Tag the leak with a marker which displays the date of leak detection. The marker shall remain in place until the leak is repaired and reinspected. [40CFR60.755.c.4.i and District-only, Rule 426.E.8.b]
 - 2) The leak shall be repaired to a leak-free state within three (3) calendar days of detection, unless its repair requires excavation. For the purposes of this permit, the installation of a new well is considered an excavation. [District-only, Rule 426.E.8.b]
 - 3) If a leak repair requires excavation, Cold Canyon shall submit an excavation plan within fifteen (15) calendar days of initial detection for the APCO's approval. The excavation plan shall include the expected date of completion. [District-only, Rule 426.E.8.c]

- 4) Leaks shall be repaired to a leak-free state using at least one of the following methods:
 - i. increasing the gas collection flow rate of existing wells; [40CFR60.755.c.4.ii and, District-only, Rule 426.E.8.d]
 - ii. repairing the landfill cover; [40CFR60.755.c.4.ii and, District-only, Rule 426.E.8.d]
 - iii. installing additional gas collection wells; [40CFR60.755.c.4.v and, District-only, Rule 426.E.8.d]
 - iv. repairing the gas transfer path; or [District-only, Rule 426.E.8.d]
 - v. an equivalent method subject to the approval of the APCO. [District-only, Rule 426.E.8.d]
- e. If either of the LFG collection or control systems are inoperable, the gas mover system shall be shutdown and the gas collection system shut-in within one (1) hour to prevent LFG emissions to the atmosphere. [40CFR60.753.e]
- f. During periods of startup, shutdown, or malfunction that do not exceed five (5) calendar days for collection systems or one (1) hour for the utility flare and transmission pipeline, all terms and conditions of this permit, which are referenced as being based on a section of 40CFR60, subpart WWW, shall not apply. [40CFR60.755.e]
- g. With the exception of maintenance operations with a total duration of less than ten (10) minutes per day, the utility flare shall only be used in the event of pipeline breakdown or upset conditions, and all such usage shall be subject to the requirements of District Rule 107. [District-only, Rule 206]
- h. Any deviation from any requirement in this permit, excluding those reported under District Rule 107 as required by condition III.A.3, shall be reported to the APCO as follows: [Rule 216.F.1.n]
 - 1) as soon as reasonably possible, but in any case within four (4) hours, after its detection; and
 - 2) as soon as the occurrence has been corrected, but no later than ten (10) calendar days after the event, through a written report which includes the probable cause of the deviation and the corrective actions or preventative measures taken.
- 5. Reporting.** Each report, due on the date indicated in the following table, should include data for the respective time periods in any given year unless otherwise indicated. [SIP Rule 205]

Due Date	Semi-annual Data	Annual Data
January 31	July 1 through December 31	January 1 through December 31
July 31	January 1 through June 30	

- a. On a **semi-annual** basis, Cold Canyon shall submit a report to the APCO, with a copy to the EPA Region IX Administrator. Each report shall be submitted no later than January 31 and July 31 of any given year; shall be certified to be true, accurate, and complete by a responsible official; and shall include the following information. [Rule 216.F.1.c.3 and, for the January 31 report, 40CFR60.757.f]
- 1) The value and duration for each exceedance of the limits in condition I.B.2 of this permit.
 - 2) A description and the duration of any period when neither of the utility flare or the transmission pipeline were in operation for a period exceeding one (1) hour.
 - 3) A description and the duration of any period when the LFG collection system was not in operation for a period exceeding five (5) calendar days.
 - 4) The location of each condition I.A.1.a exceedance.
 - 5) The concentration measured during re-monitoring, one month after an exceedance repair.
 - 6) The location, date, and reason for any installation of a new collection well.
 - 7) Include a summary of deviations from requirements in this permit. [Rule 216.F.1.c.3.i]
 - 8) If Cold Canyon is not in compliance with any federally-enforceable requirement, include a progress report on the schedule of compliance which has been approved by the District Hearing Board. That report shall include: [Rule 216.F.2.c]
 - i. dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
 - ii. an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- b. On an **annual** basis, no later than January 31 of each year, Cold Canyon shall submit a Compliance Certification Report to the APCO pursuant to District Rule 216.L.3, with a copy to the EPA Region IX Administrator. This report shall identify each federal

applicable requirement in this permit, the compliance status of each subject process unit, whether the compliance was continuous or intermittent since the last certification, and the method(s) used to determine compliance. Each report shall be certified to be true, accurate, and complete by a responsible official. [Rule 216.L.3]

- c. At least forty-five (45) calendar days prior to excavating or otherwise disturbing any asbestos-containing material, Cold Canyon shall submit the following information to the APCO in writing. If the original excavation date is revised, the APCO shall also be notified at least ten (10) working days before excavation begins. [40CFR61.151.d]
 - 1) The scheduled starting and completion dates.
 - 2) The reason for disturbing the waste.
 - 3) The procedures to be use to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material.
 - 4) The location of any temporary storage site and final disposal site.
 - 5) Proof of asbestos work notification to Cal-OSHA and compliance with 8CCR1529 in the form of a bid specification or work plan, including the estimated appearance of the asbestos-containing waste that might be encountered and the actions to be taken if it is encountered. [District-only, Rule 206]

C. Compliance Testing. All testing shall be conducted in accordance with the District's Source Test Policy and with results being reported to the APCO within forty-five (45) days of testing, unless otherwise identified in this permit. [District-only, Rule 210.B.1]

1. Baseline conditions shall be established using the procedures of District Rule 426.G.1, or equivalent subject to the APCO's approval. [District-only, Rule 426.G.1]
2. With the exception of the utility flare, the VOC destruction/treatment efficiency of a control device shall be determined using the procedures of District Rule 426.G.4. VOC shall be measured using EPA Method 25C, or equivalent subject to the APCO's approval, and inlet flow shall be measured using EPA Method 2 or the installed flow measuring device. The utility flare efficiency shall be based on the manufacturer's testing and guarantee. [District-only, Rule 426.G.4]
3. Well head oxygen content shall be determined using EPA Method 3A, except as indicated in 40CFR60.753.c.2. [40CFR60.753.c.2.]
4. Utility flare visible emissions shall be determined using EPA Method 22. [40CFR60.18.f.1]

5. Landfill surface emission monitoring shall be performed in accordance with section 4.3.1 of EPA Method 21, except that the probe inlet shall be held two inches (2") from the ground and monitoring shall only be performed when the average wind speed is less than five (5) miles per hour and the instantaneous wind speed is less than ten (10) miles per hour. [40CFR60.755.c.3 and, District-only, Rule 426.G.1]

D. Conditions Specific to the Landfill Process

1. The LFG collection system shall collect gas from all areas of the landfill that contain waste and, when in operation, shall route that gas to either the utility flare or to the transmission pipeline. In an active area where one or more vertical collection wells are idled to allow the placement of waste, the flowrate of one or more adjacent wells shall be adjusted as necessary to collect gas from that area. [40CFR60.753.a & 60.753.e]
2. Cold Canyon's utility flare and any control device(s) used by a second party, who is contractually responsible for disposal of the LFG, shall be in operation at all times while the respective device is receiving LFG. [40CFR60.18.e for the flare and 40CFR60.753.f for both devices]
3. The collection system shall be constructed in accordance with the APCO approved design plan and shall be expanded within sixty (60) days into those active areas where the initial solid waste has been in place at least five (5) years and into those closed or at-final-grade areas where the initial waste has been in place at least two (2) years. [40CFR60.755.b]
4. The LFG collection system shall be operated to prevent off-site migration, and oxygen intrusion or overdraw that can cause fires or damage to the collection system. [District-only, Rule 426.E.1.b]
5. Cold Canyon shall maintain, monitor, operate, and improve the gas collection system and landfill cover to prevent leaks from:
 - a. all locations on the surface of the landfill covered by final cover, [40CFR60.753.d and, District-only, Rule 426.E.8.a]
 - b. all locations on the surface of the landfill which have been covered by intermediate cover for over six (6) months, and [40CFR60.753.d and, District-only, Rule 426.E.8.a]
 - c. all locations along the gas transfer path of the gas collection system. [District-only, Rule 426.E.8.a]
6. Whenever previously buried waste is brought to the surface during installation or preparation of wells, trenches, piping, or other equipment, or when solid waste is to be excavated and moved, Cold Canyon shall cover the excavated waste using fresh soil, plastic sheeting, vapor retarding foam, or other CIWMB approved "Alternate Daily Cover," by the end of the

working day or as necessary to prevent a public nuisance, whichever is sooner. Any asbestos containing material shall be handled in accordance with all state and federal regulations. [District-only, Rule 426.E.9]

7. The condensate from the gas collection system shall be collected, stored, and treated in a manner approved by the DO&G and, as applicable, by the RWQCB and the CIWMB. [District-only, Rule 426.E.10]
8. The utility flare shall:
 - a. be operated with a flame present whenever it is combusting LFG; [40CFR60.18.c.2]
 - b. be operated and maintained in conformance with the manufacturer's design; [40CFR60.18.c.3]
 - c. have sufficient flow of propane gas to the pilot flame to ensure immediate ignition when in contact with landfill gases during startup, restart, or when the flow of landfill gases is inadequate to sustain combustion of the flare; and [District-only, Rule 426.F.2.a]
 - d. have a VOC destruction/treatment efficiency of at least ninety-eight percent (98%) by weight. [District-only, Rule 426.F.1.a]
9. Action must be taken to comply with the notification, recordkeeping, and reporting requirements as specified in 40CFR60.7. All notifications and reports shall be submitted to the APCO with a copy submitted to the EPA Region IX Administrator. At least sixty (60) calendar days prior to the anticipated date of any physical or operational change which may increase emissions, written notification of that anticipated date shall be submitted. [40CFR60.7.a.4]

E. Future Effective Conditions. The following conditions shall become effective upon the dates indicated.

1. No later than thirty (30) calendar days prior to no longer accepting waste in preparation for landfill closure, Cold Canyon shall submit a closure report for the APCO's approval. [40CFR60.757.d]
2. Within sixty (60) calendar days of the Cold Canyon Landfill having become inactive, the following notations shall be made in accordance with California law on the deed to the facility property, and on any other instrument that would normally be examined during a title search, to notify any potential purchaser of the property that: [40CFR61.151.e]
 - a. the land has been used for the disposal of asbestos-containing waste material;
 - b. the survey plot and record of the location and quantity of asbestos-containing waste disposed of within the disposal site required in 40CFR61.154(f) have been filed with the APCO; and
 - c. the site is subject to 40CFR61, subpart M.
3. No later than thirty (30) calendars days prior to collection system shutdown in preparation for equipment removal, Cold Canyon shall submit an equipment removal report for the APCO's approval. [40CFR60.757.e]

IV. Compliance Determination Fees. The following fee schedules shall apply to the indicated process units. [District-only, Rule 302.E]

PROCESS	FEE SCHEDULE (Rule 302.E)		Each
LFG collection and control system	27	landfill gas control	1